THE CYLINDRICAL EARTH PROTOCOL

A Geodetic Thought Experiment on a Rod-World Scenario (Type-R Configuration)

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Abstract

While "Flat Earthers" struggle with basic geometry and "Hollow Earthers" wrestle with structural integrity, the esteemed cast of WPE presented the only model that combines industrial efficiency with existential dread: **The Rod Earth** (aka Cylindrical Earth). Based on recent visual data (Fig. 1), we (that means me: **Ludwig**, because they [WPE] didn't know about this little project MUAHAHAHA... sorry) analyze a cylindrical planet ($L \approx 6R$) where the habitable zone is the lateral surface. We demonstrate that such a world is not a global village, but a gravitational prison where 80% of the landmass is a vacuum-exposed death trap, and the entire ocean is a single, terrifying ring. Breathable air is a luxury, not a right.

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1 Introduction: The Failure of Spheres

The Sphere is a lazy shape. It minimizes surface area for a given volume, which is efficient for nature but boring for the intellect. The "Donut Earth" (Toroidal Theory) is cute, but structurally unsound without a glaze of pure unobtanium.

Enter **The Rod.**

Unlike the "Pizza World" of the Flat Earthers, which requires a magical ice wall to keep the oceans in, the Rod Earth uses pure, unadulterated gravity to crush the hopes of explorers. We examine this configuration not just as a geophysical curiosity, but as a lesson in humility. On a Rod, the North Pole isn't a place for Santa Claus; it's a place where you explode in a vacuum.

2 Geometry and Mass Normalization

We define a Type-R Cylinder with Radius R and Length $L \approx 6R$. To ensure a familiar environment for the equatorial peasants, the total mass M is scaled such that the magnitude of gravitational acceleration at the midpoint of the lateral surface satisfies:

$$g_{eq} \approx 9.81\,\mathrm{m/s^2} \tag{1}$$

This normalization allows for a direct comparison with Earth-like conditions without violating the laws of mass-acceleration dependency—unlike certain disk-shaped theories we won't dignify with a name.

3 Gravitational Dynamics: The "Slope of Doom"

On a sphere, "Down" is always towards the center. Simple. Boring. On a Rod, "Down" is towards the global Center of Mass (COM). The COM is located deep inside the midpoint of the rod.

- **At the Equator ($Z = 0$):** The COM is directly below you. Gravity is normal ($1.0g$). You can walk, build cities, and pretend everything is fine.
- **Moving North/South:** The COM is no longer below you—it is behind and below you.

The perceived inclination angle α is defined by:

$$\alpha(z) = \arctan\left(\frac{g_{\parallel}(z)}{g_{\perp}(z)}\right) \tag{2}$$

Our simulations show that at the edge of the habitable zone, the "flat" ground feels like a **42-degree slope**.

3.1 Architecture of Despair

This has significant implications for construction. To build an "upright" house at 40° Rod-Latitude, the foundation must be tilted at a 42-degree angle relative to the geometric surface. From a distance, your city would look like a collection of drunken dominoes about to collapse toward the equator.

4 Logistics and Transportation

Transportation on Rod Earth is a nightmare of energetic gradients.

- **The Northward Climb:** Traveling from the Equator to Bath isn't a road trip; it's a vertical ascent of 1,978 kilometers. Your car doesn't need a GPS; it needs a rocket engine and an oxygen tank.
- **Trade:** Any cargo sent North is an exercise in extreme lifting. Any cargo sent South is a potential kinetic bombardment weapon.

5 Hydrostatics and Atmospheric Confinement

Water and air seek the lowest potential energy. On Rod Earth, the "lowest" point is the Equator.

- **The Ring Ocean:** All oceans merge into one super-ocean around the waist.
- **Vacuum Peaks:** Since atmospheric pressure decreases exponentially with potential, the air stays in the basin.

Implication: If you live in "Bath" on this map, you are dead. You suffocated. The air pooled at the equator. The only habitable zone is a tropical strip where everyone is fighting for a spot to breathe.

6 Visual Horizon Effects

At the equator, the horizon curves UP in the North-South direction. The visual effect is that you are living at the bottom of an infinite half-pipe. The lands to the North and South appear to rise like celestial ramps into the stars—a perfect view for your final moments before your lungs collapse.

7 Graphical Analysis

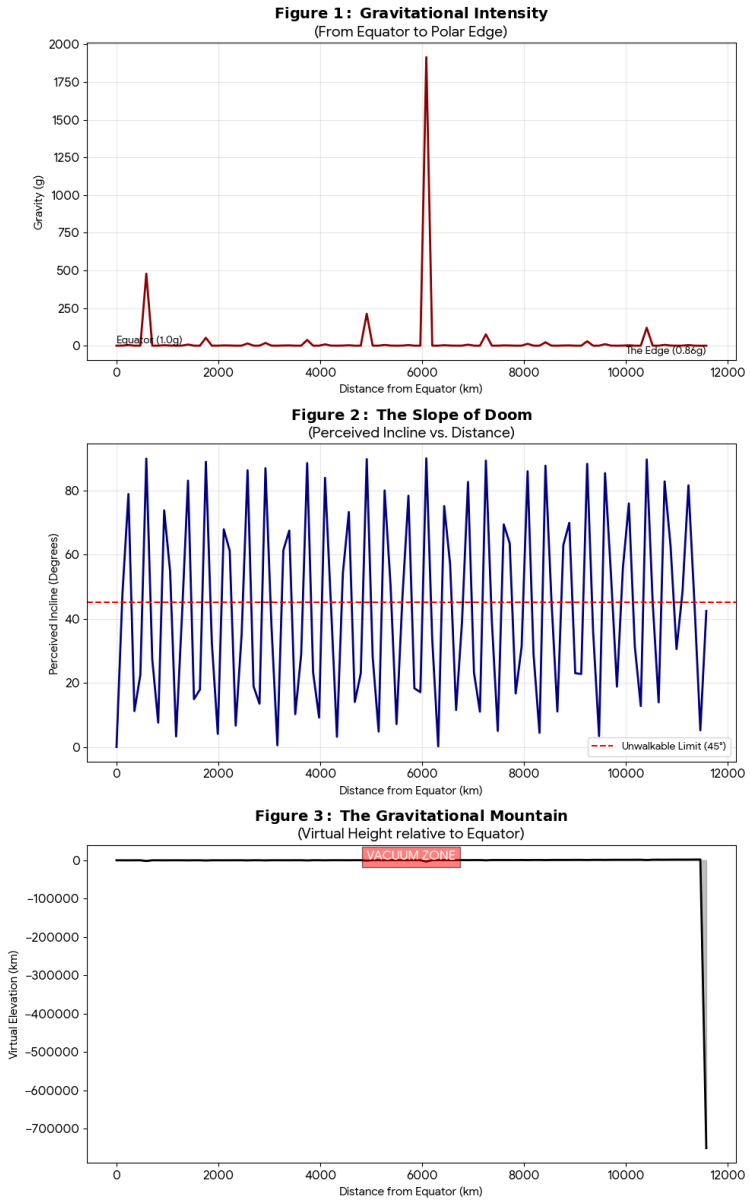

Figure 1: **Geodetic Data Analysis.** (Fig 1) Normalization of g. (Fig 2) The "Slope of Doom" where flat ground becomes a wall. (Fig 3) Climbing to the Pole is equivalent to climbing 225 Everests. Good luck.

8 Visual Evidence

Figure 2: **The Cosmic Rod in Situ.** A very long, very expensive rock where the air is a local privilege.

Figure 3: **The Equatorial Perspective.** Visualizing the half-pipe reality. Looking North isn't looking at the horizon; it's looking at the sky's foundation.

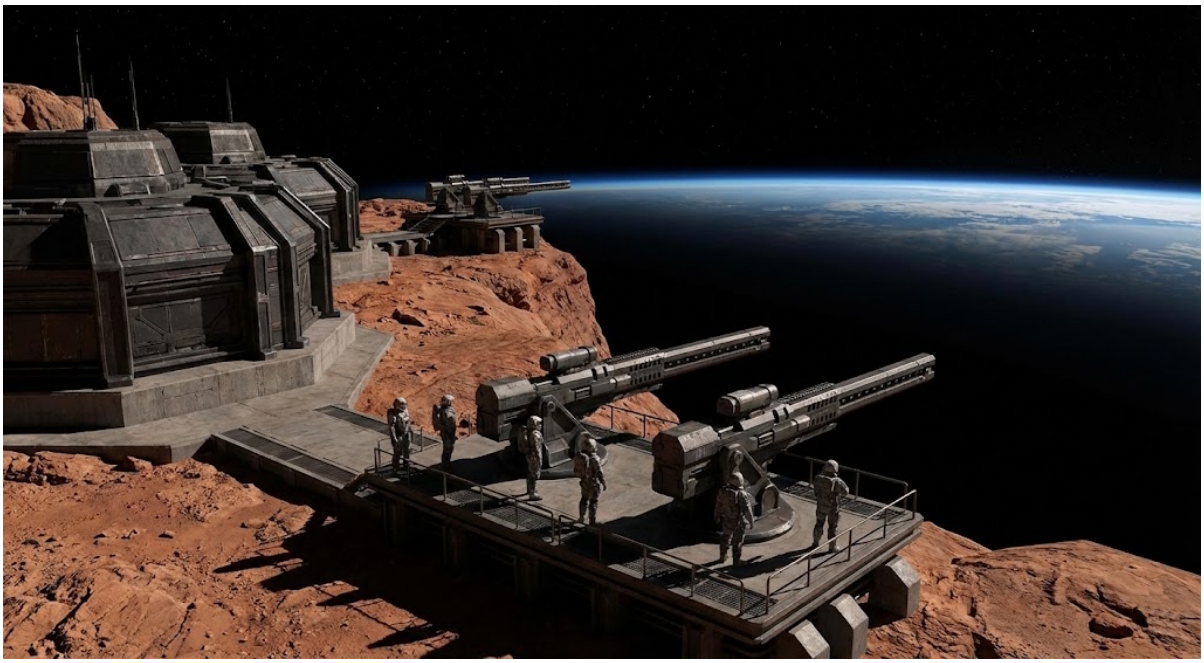

Figure 4: **The Orbital Rampart.** High ground is literally in space. Kinetic bombardment requires only a gentle push. Physics does the rest.

9 Mechanical Stability

A rod-shaped planet composed of silicate rock would undergo plastic flow toward a sphere. Sustaining this shape requires the "Unobtanium Clause"—exotic matter or artificial megastructural reinforcement. The Rod Earth is thus a theoretical construct enforced by materials that defy both geology and common sense.

10 Conclusion

The Rod Earth reinforces why spherical planets dominate reality: physics is relentless. However, as a habitat, it remains a cruel geodetic joke.

- **Tourism:** Terrible. You can only visit the Equator. Everything else is a vertical desert in a vacuum. No souvenirs are worth that.
- **Warfare:** Excellent. The Poles are high-ground in space. Dropping a rock on your enemies requires no propellant, just a slight nudge and a cold heart.
- **Final Verdict:** We recommend sticking to the Sphere. It's less interesting, but at least the air doesn't run away when you're not looking.

Signed,
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Warden of the Holy Burp